

Claims

We claim:

1. A hard surface cleaner having a pH below 6.0, comprising:

5 surfactant in the 0-10% weight range;
a poly D-glucosamine at less than 2% by weight;
a furanone at less than 5% by weight; and
water.

10 2. The hard surface cleaner of claim 1, wherein the furanone is a halogenated furanone and the poly D-glucosamine is chitosan.

15 3. The hard surface cleaner of claim 2, further comprising an organic acid selected from the group consisting of lactic acid, sulfamic acid, citric acid, valeric acid, hexanoic acid, and glycolic acid.

20 4. The hard surface cleaner of claim 2, further comprising a glycol ether solvent.

5. The hard surface cleaner of claim 2, wherein the surfactant is a nonionic surfactant.

25 6. The hard surface cleaner of claim 2, further comprising a cellulosic thickener.

30 7. The hard surface cleaner of claim 1, further comprising a disinfectant.

8. The hard surface cleaner of claim 2, wherein the water is at least 50% by weight of the cleaner.

35 9. A method of cleaning a hard surface, comprising:
applying a cleaner against the hard surface; and then
rinsing the surface with water;
wherein the cleaner is the cleaner of claim 1.

10. The method of claim 9, wherein the poly D-glucosamine is chitosan and the furanone is a halogenated furanone.

5 11. The method of claim 10, wherein the cleaner further comprising an organic acid selected from the group consisting of lactic acid, sulfamic acid, citric acid, valeric acid, hexanoic acid, and glycolic acid.

10 12. The method of claim 10, wherein the cleaner further comprises a glycol ether solvent.

13. The method of claim 9, wherein the surfactant is a nonionic surfactant.

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14. The method of claim 9, wherein the cleaner further comprises a cellulosic thickener.

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15. The method of claim 9, wherein the cleaner further comprises a disinfectant.

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16. The method of claim 9, wherein the cleaner comprises at least 50% by weight of the cleaner.

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